



032905-010.ST25

SEQUENCE LISTING

<110> Hazen, Kevin C.  
Singleton, David R.  
Masuoka, James  
Wu, Jean G.  
Glee, Pati M.

<120> Yeast Cell Wall Peptides and Antibodies Thereto

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<140> US 09/913,850

<141> 2001-08-20

<150> PCT/US00/04228

<151> 2000-02-18

<150> US 60/120,764

<151> 1999-02-19

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<223> peptides analagous in structure to the bonding  
domains exhibited on the surface of hydrophobic  
yeast cell wall proteins to interfere with yeast  
cells' ability to bond to host tissues

<221> PEPTIDE

<222> 2

<223> Xaa = a bond or any amino acid

<221> PEPTIDE

<222> 3

<223> Xaa = any amino acid

<221> PEPTIDE

<222> 4

<223> Xaa = a tripeptide wherein at least one amino acid  
is Val, Leu, Ile, Phe, Tyr, or Trp

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Gly Xaa Xaa Xaa

1

<210> 2

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 <223> Clone 4 of 6C5 monoclonal antibody epitope

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Gly Arg Asn Leu Glu Val Asp Arg Ala Leu Asp Thr  
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&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Clone 11 of 6C5 monoclonal antibody epitope

&lt;400&gt; 7

Arg Ser Met Leu Glu Leu Asp Val Ile Leu Glu Gly  
 1 5 10

&lt;210&gt; 8

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Clone 12 of 6C5 monoclonal antibody epitope

&lt;400&gt; 8

Glu Gly Ile Gly Val Glu Val Glu Val Val Leu Glu  
 1 5 10

&lt;210&gt; 9

&lt;211&gt; 12

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&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Clone 4-3-3 of 6C5 monoclonal antibody epitope

&lt;400&gt; 9

Glu Ile Asp Leu Lys Leu Glu Pro Gly Thr Arg Val  
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&lt;211&gt; 12

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&lt;220&gt;

&lt;223&gt; Clone 44 of 6C5 monoclonal antibody epitope

&lt;400&gt; 10

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<210> 12  
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<210> 13  
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<223> Clone 57 of 6C5 monoclonal antibody epitope

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<223> Clone 1 of panned 5D8 antigen epitope

<400> 17

Pro Leu Leu Pro Glu Pro Leu Phe Ile Glu Leu Gly  
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<223> Clone 12 of panned 5D8 antigen epitope

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Glu Lys Leu Tyr Ile Ser Ala Trp Asp His Leu Asn  
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 <223> Xaa = Ile or Leu

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<210> 25  
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<210> 26  
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<210> 27  
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<210> 28  
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&lt;400&gt; 28

Ala	Leu	Asn	Pro	Ser	His	Gly	Ile	Asp	Val	Gly	Lys
1				5					10		

&lt;210&gt; 29

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Mass-spec identified peptides

&lt;400&gt; 29

Leu	Val	Gln	Pro	Ala	Val	Gln	Asn	Asp	Ser	Asp	Pro	Asn	Arg
1				5					10				

&lt;210&gt; 30

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Mass-spec identified peptides

&lt;400&gt; 30

Ala	Asn	Ser	Ala	Leu	Asp	Gly	Gln	Gly	Asn	Leu	Val	Ile	Thr	Ala	Arg
1				5					10					15	

&lt;210&gt; 31

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Mass-spec identified peptides

&lt;400&gt; 31

Asp	Leu	Gln	Ala	Pro	Asn	Asp	His	Val	Val	Gly	Pro	Ile	Ala	Arg
1				5					10				15	

&lt;210&gt; 32

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Mass-spec identified peptides

&lt;400&gt; 32

Gly	Ala	Ala	Val	Gln	Val	Trp	Thr	Cys	Asn	Gly	Thr	Gly	Ala	Gln	Lys
1				5					10					15	

&lt;210&gt; 33



<211> 22  
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<220>  
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 Phe Tyr Gln Asp Ala Arg  
 20

<210> 34  
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<220>  
 <223> peptides analagous in structure to the bonding  
 domains exhibited on the surface of hydrophobic  
 yeast cell wall proteins to interfere with yeast  
 cells' ability to bond to host tissues

<221> PEPTIDE  
 <222> 2  
 <223> Xaa = a peptide bond

<400> 34  
 Glx Xaa Pro Leu Tyr Ile  
 1 5

<210> 35  
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 yeast cell wall proteins to interfere with yeast  
 cells' ability to bond to host tissues

<221> PEPTIDE  
 <222> 2  
 <223> Xaa = a peptide bond

<400> 35  
 Glx Xaa Pro Leu Tyr Val  
 1 5

<210> 36  
 <211> 6  
 <212> PRT  
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<220>

<223> peptides analagous in structure to the bonding domains exhibited on the surface of hydrophobic yeast cell wall proteins to interfere with yeast cells' ability to bond to host tissues

<221> PEPTIDE

<222> 2

<223> Xaa = a peptide bond

<400> 36

Glx Xaa Pro Leu Phe Ile

1

5

<210> 37

<211> 6

<212> PRT

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<223> peptides analagous in structure to the bonding domains exhibited on the surface of hydrophobic yeast cell wall proteins to interfere with yeast cells' ability to bond to host tissues

<221> PEPTIDE

<222> 2

<223> Xaa = a peptide bond

<400> 37

Glx Xaa Pro Leu Phe Val

1

5

<210> 38

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<223> peptides analagous in structure to the bonding domains exhibited on the surface of hydrophobic yeast cell wall proteins to interfere with yeast cells' ability to bond to host tissues

<221> PEPTIDE

<222> 2

<223> Xaa = an amino acid selected from the group consisting of Pro, Lys, Glu

<221> PEPTIDE

<222> 4

<223> Xaa = an amino acid selected from the group consisting of Phe and Tyr

<221> PEPTIDE

&lt;222&gt; 5

<223> Xaa = an amino acid selected from the group  
consisting of Ile and Val

&lt;221&gt; PEPTIDE

&lt;222&gt; 6

<223> Xaa = an amino acid selected from the group  
consisting of Ser and Thr

&lt;400&gt; 38

Glu Xaa Leu Xaa Xaa Xaa  
1 5

&lt;210&gt; 39

&lt;211&gt; 1301

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> DNA sequence of 6C5 antigen and deduced amino acid  
sequence

&lt;221&gt; CDS

&lt;222&gt; (151)...(1182)

&lt;400&gt; 39

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aatctctcat caattgaagg atagttccaa atttcatcat taaaaacaac taaaataac 120
tacaacttaa ctttaactaa aaaaaaaaaac atg tca atc gat aaa tca aga atg 174
                               Met Ser Ile Asp Lys Ser Arg Met
                               1 5

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gtc acc aga tta ggt aaa tct ggt ttg aag gtc aac act gtt gct gtc 222
Val Thr Arg Leu Gly Lys Ser Gly Leu Lys Val Asn Thr Val Ala Val
    10                15                20

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ggt act atg aga ttg gga tcc agt tgg aga ggt ttt aat ggt gac atc 270
Gly Thr Met Arg Leu Gly Ser Ser Trp Arg Gly Phe Asn Gly Asp Ile
    25                30                35                40

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gac gag tgt ttg aaa att ttg aaa ttt tgt tat gac aac ggg ttc cgt 318
Asp Glu Cys Leu Lys Ile Leu Lys Phe Cys Tyr Asp Asn Gly Phe Arg
                45                50                55

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act ttc gat act gct gat act tac tca aat ggt aaa tct gaa gag ttg 366
Thr Phe Asp Thr Ala Asp Thr Tyr Ser Asn Gly Lys Ser Glu Glu Leu
                60                65                70

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ttg ggt tta ttc atc aag aaa tac aat att cca cgt gaa cga att gtc 414
Leu Gly Leu Phe Ile Lys Lys Tyr Asn Ile Pro Arg Glu Arg Ile Val
    75                80                85

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att tta acc aaa tgc tac ttc tca gtc aaa gac gac gca gaa gac agt 462
Ile Leu Thr Lys Cys Tyr Phe Ser Val Lys Asp Asp Ala Glu Asp Ser
    90                95                100

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tca ctt gaa att gat cca att gac tat atg aac ggt aaa gga ttg agc 510

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Ser 105	Leu	Glu	Ile	Asp	Pro 110	Ile	Asp	Tyr	Met	Asn 115	Gly	Lys	Gly	Leu	Ser 120		
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Arg	Lys	His	Ile	Leu 125	Ala	Ala	Ala	Glu	Ala 130	Ser	Val	Lys	Arg	Leu 135	Gly		
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Thr	Tyr	Ile	Asp 140	Val	Leu	Gln	Ile 145	His	Arg	Leu	Asp	His 150	Glu	Val	Thr		
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Tyr	Glu 155	Glu	Val	Met	Arg	Ser	Leu 160	Asn	Asp	Val	Val	Glu 165	Gln	Gly	Leu		
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Gln	Ser	His	Tyr 205	Ser	Leu	Leu	Tyr	Arg 210	Glu	Asp	Glu	Arg	Glu	Leu 215	Asn		
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Glu	Leu 315	Val	Gly	Ile	Phe	Lys 320	Val	Asn	Leu	Thr	Glu 325	Asp	Asp	Ile	Lys		
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<220>  
<223> deduced amino acid sequence of 6C5 antigen

Page 13